

Hi-Fi Component Amplifie

SERVICE MANUAL MODEL PMA-550



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EQ. CONTROL UNIT AUE-010	 				٠.		, .		 		5,6
POWER AMP UNIT PUX-028	 	٠.			٠.		٠.		 		. 7
POWER SUPPLY UNIT ETC-393B	 	٠.				٠.			 	8~	~10
POWER SUPPLY UNIT ETC-393B WIRING DIAGRAM CONNECTION DIAGRAM	 		٠.			. ,	٠.			11	,12
CONNECTION DIAGRAM	 							٠.		13	,14
	 			٠.						15	,16

NIPPON COLUMBIA CO., LTD.

SPECIFICATIONS

POWER AMPLIFIER SECTION (TUNER - SPOUT)

Rated Output:

Both channels driven

 $20 \text{ Hz} \sim 20 \text{ kHz} \cdot 100 \text{ W} + 100 \text{ W} (8)$

ohm load THD 0.005%)

1 kHz 140 W + 140 W (4 ohm load)

(MAX)

1 kHz 100 W + 100 W (4 ohm load)

(IEC)

Total Harmonic Distortion: Less than 0.005 %

Intermodulation Distortion: Less than .. 7 kHz/60 Hz: 1/4 0.008%

(at amplitude output) equivalent to

rated output)

Power Band Width: ... 5 Hz ~ 100 kHz (IHF, T.H.D 0.035%) Transmission Characteristics: 1 Hz \sim 400 kHz $^{+0}_{-3}$ dB (at 1 W output)

Input Sensitivity: _

150 mV

Input Impedance: 40 k ohm Output Impedance: 0.1 ohm (1 kHz)

Output Terminals:

SN Ratio (IHFA Network): 108 dB (Input terminals short-circuited) Speaker: A & B load 4 ~ 16 ohm,

A + B load 8 ~ 16 ohm; Headphone/

Stereo headphone

EQUALIZER AMPLIFIER SECTION

Equalizer Amplifier Output

(REC OUT Terminal):

Maximum output 10 V (at 50 k ohm

load)

Rated output 150 mV

Total harmonic distortion: below

0.001% (at 1 kHz, 8 V output)

Input Sensitivity/Input

Impedance:

PHONO-1 MM 2.5 mV 50 k ohm PHONO-2 MC 125 μV 100 ohm TUNER 150 mV 40 k ohm

AUX, TAPE PHONO-1 MM

150 mV 40 k ohm Within ±0.2 dB

RIAA Deviation:

(20 Hz ~ 100 kHz) PHONO-2 MC Within ±0.2 dB

(20 Hz ~ 100 kHz)

OVERALL CHARACTERISTICS

SN Ratio (IHFA Network): PHONO-1 MM 90 dB (Input termi

> nals short-circuited at 2.5 mV input)

PHONO-2 MC 73 dB (Input termi

nals short-circuited, at 250 μV input)

TUNER TAPE AUX

108 dB (Input term)

nals short-circuited)

Tone Control Adjustable

Range:

BASS TREBLE 100 Hz ±8 dB 10 kHz ±8 dB

Filtering Characteristics: EQUALIZER SUBSONIC

18 Hz, 6 dB/oct

Loudness Characteristics:

Low Frequency 100 Hz + 7 dB

High Frequency 10 kHz +6 dB

AC OUTLET:

DIMENSIONS:

(For U.S and Canada)

Not included in systems for Europea-

SWITCHES x 2, 100 W (Total)

UNSWITCHED x 1 250 W

POWER SOURCE: Germany and France: AC 220 V, 50 Hz

U.K.: AC 240 V, 50 Hz U.S.A.: AC 120 V. 60 Hz

Hong Kong: AC 200 V, 50 Hz

POWER CONSUMPTION: 260 W (U.S.A.) 430 VA (Canada)

740 W (at maximum output) (IEC)

434 mm (W) x 132 mm (H)

× 407 mm (D)

(including rubber feet, control knobs

and terminals)

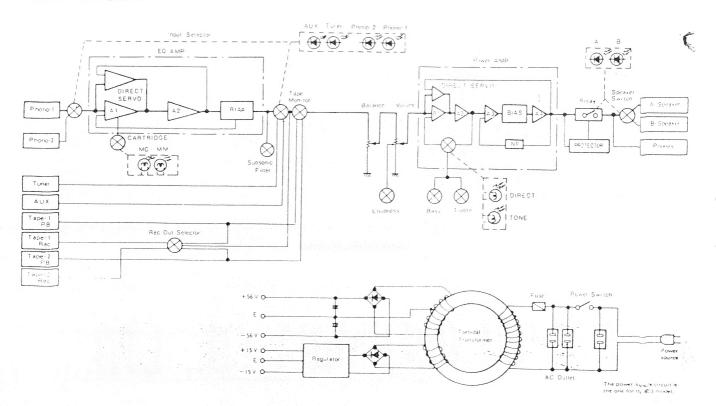
WEIGHT. 13.5 kg

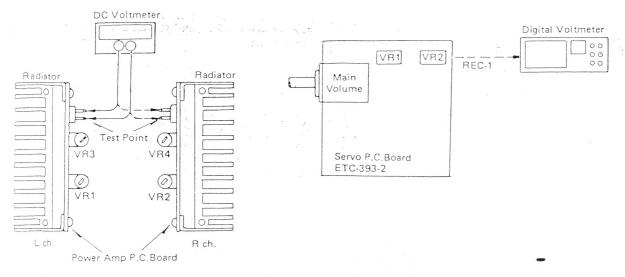
Design and specifications are subject to change without prior notice

NOTE: The following codes correspond to the appropriate models.

E2 for Europe, EA for Australia, EK for U.K., EC for Canada, E3 for U.S.A.

BLOCK DIAGRAM





IDLE CURRENT ADJUSTMENT METHOD OF POWER AMP (PUX-028 PRINTED BOARD)

- 1. Place the unit in normal position, not sideways or tilted. Avoid too much ventilation, since the adjustment must be done where temperature is between 15°C and 30°C.
- 2. Set the switches on the unit as follows:

Power \rightarrow OFF Volume \rightarrow $- \infty$ dB Direct couple \rightarrow Direct

Speaker terminals → No load (no speaker connected)

- 3. Remove the top cover, and the VR1, VR2, VR3 and VR4 fully counterclockwise. Connect a DC voltmeter to the test points.
- Plug in the AC cord to power outlet of: Europe 220 V (198 ~ 231 V); U.K. and Australia 240 V (216 ~ 252 V); Canada and U.S.A. 120 V (108 ~ 126 V); and turn the power on.
 Immediately (within one minute), turn VR1 and VR2 clockwise and adjust the test point voltage (VTP) to 7±2 mV preliminarily.
- 5. After about two minutes of the above preliminary adjustment, adjust VR1 and VR2 so as VTP reads 10 ± 2 mV.
- 6. Adjust VR3 and VR4 so as VTP reads 25 ±2 mV preliminarily.

ADJUSTMENT OF SERVO (ETC-393-2 PRINTED BOARD)

PREPARATION

- 1. Insert short pins into PHONE input terminals.
- 2. Connect a digital voltmeter (0.01 mV ~ 1 mV DC range must be measurable) into each of REC. out terminals (L & R channels).
- 3. Set the FUNCTION switch to "PHONO-1" position and CARTRIDGE changeover switch to "MM" position and turn the main volume to MIN.

ADJUSTMENT

- 1. Turn POWER on and after two minutes warming-up conduct the following adjustments.
- 2. Adjust VR1 (100 kohm semi-solid volume), so as the L-channel digital voltmeter reads 0.5 mV DC or less.
- 3. Adjust VR2 (100 kohm semi-solid volume), so as the R-channel digital voltmeter reads 0.5 mV DC or less.

NOTE ON SERVICING REMOTE SWITCH

(1) Hold the case when remove and install the speaker switch.

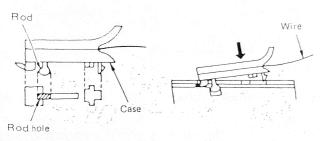


Fig. 1 How to install

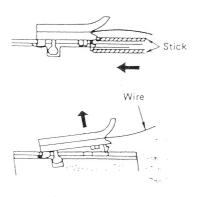
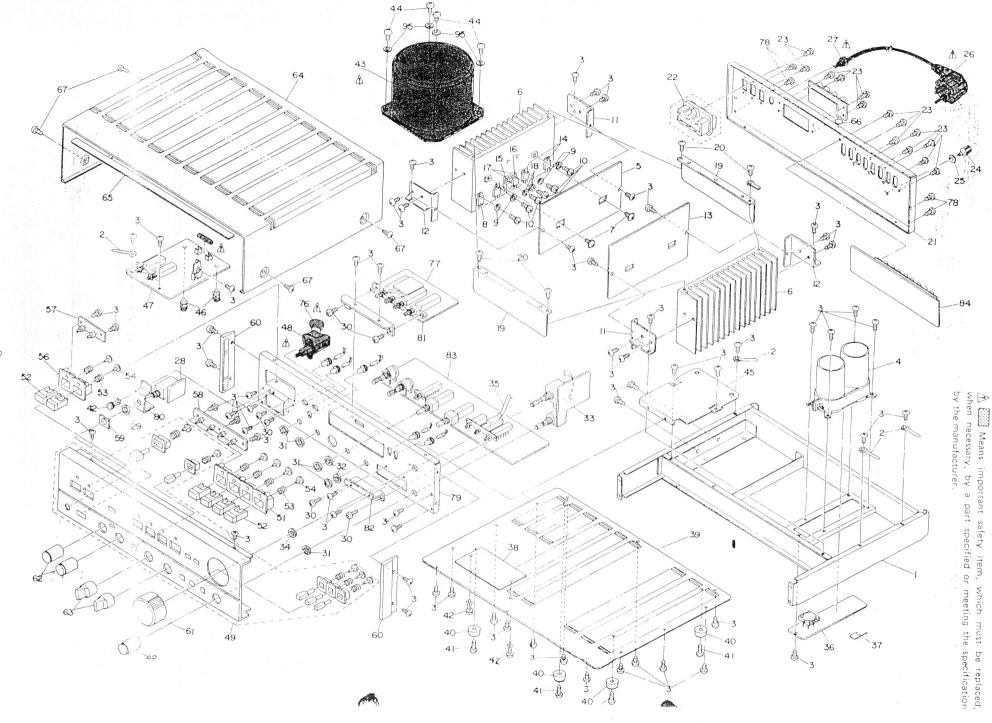


Fig. 2 How to remove



EXPLODED VIEW OF PARTS LIST

Note: See addendum list below for the Parts with asterisk (*) on the Ref. No. and the other Part not included in this list.

Ref. No. in () for packing parts and not appear on the exploded view.

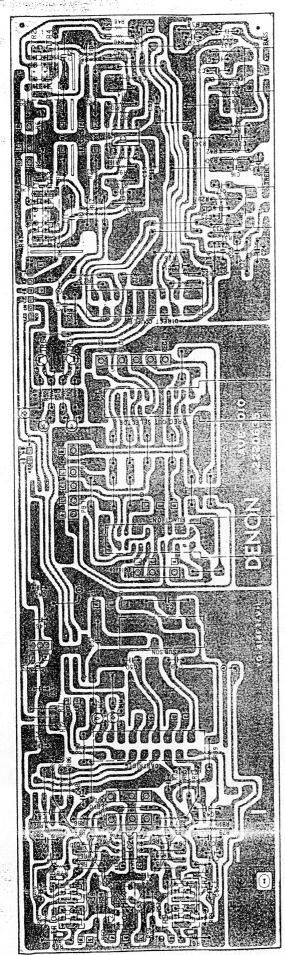
A.					exploded view.	
	Ref. No.	Part No.	Part Name & Descriptions	Ref. No.	Part No.	Part Name & Descriptions
1	1	4110251208	MAIN CHASSIS ASS.	44	4730455015	TAPING SCREW (2) 4x10
1	2	EP-4772	CORD HOLDER	45	4120725106	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	3	4730354019	TAPPING SCREW (2) 3x8	46	MD-5271	P.C.B. SUPPORT
	4	2546027008	CHEMICON 22000μx2 63V	47	ETC-393B-1	POWER SUPPLY UNIT
	- 5	PUX-028-1	POWER AMP (L) UNIT	A:485	3 2124202012	ZRUSH SWITTCH
	6	4170125002	POWER RADIATOR	49	1440698107	FRONT PANEL ASS.
1	7	4700026005	TAPPING SCREW (2) WITH WASHER	50	_	THOM FAMEL ASS.
			3×8	51	1140054009	PANEL BUSH
	8	2710139049	TRANSISTOR 2SA1146(R)/(O)LB	52	1130217005	PUSH KNOB ASS.
1	9	4150175001	WASHER	53	4630220007	SPRING
1	10	4700012006	CROSS PAN SCREW WITH S. WASHER	54	1190014002	STOPPER
1			3×12	55	1240029015	
1	1.1	4120729005	RADIATOR BRACKET (A)	56	1140055008	FELT SHEET (A)
11	12	4120730007	RADIATOR BRACKET (B)	57	ETC-39286	PANEL BUSH
1	13	PUX-0282	POWER AMP (R) UNIT	58	ETC-39286	SP LED UNIT
	14	2730241043	TRANSISTOR 2SC2706(R)/(O)LB	59		INPUT LED UNIT
	15	2710140025	TRANSISTOR 2SA968(Y)/(O)LB110A	60	4610149001	RUBBER SHEET
11	16	2730240028	TRANSISTOR 2SC2238(Y)/(0)LB110A	61	1460283107	ESCUTCHEON PLATE
	17	4150052001	INSULATING SHEET		1120265106	KNOB (FOR MAIN VR)
	18	4150171005	WASHER	62	1120309004	KNOB (FOR TONE & BALANCE)
	6349	4140217102	SHIELD BRACKET	63	1120308005	KNOB (FOR TAPE)
Ł,	B	4730353010	TAPPING SCREW (2) 3×6	64	1020103106	TOP COVER
	*21	1050339005	BACK PANEL	65	1220069011	SPACER
	22	_		66	1040034006	STOPPER
	23			67	4734801005	TAPPING SCREW (2) 4x8
	24	2050071016	TERMINAL	(68)	5040064001	CABINET SHEET
	25	4770018001	WASHER	(69)	5030253000	CUSHION
16	∆*26.≹	2062016001	ACCORD	*(70)	5010647021	CARTON CASE
A	<u>*</u> 27	4450020005	CORD BUSH	*(71)	5110803008	INST. MANUAL
1	28	ETC-3928-4	HEADPHONE UNIT	*(72)		
	29		NUT 12mm SP	*(73)		
	30	4711303018		*(74)		
	31	4771303016	CROSS PAN SCREW 3x6	*(75)		보다 보다 하고 있는 것이 어떤 것이 없는 사람들이 되었다.
	32		NUT 7mm SP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2518001007	CAPACITOR 0.01µF 450V OIL
	33	ETC-393B-2	TOOTH WASHER 7mm SP			CAPACITOR
	34	C1C-353D-2	VR SERVO UNIT	7.7	ETC-392B-1	INPUT UNIT
	35	4350051006	NUT 8mm SP	78	4770064107	FIXING SCREW
	36	ETC-393B-3	FLEXIBLE SLIDER	79	4120726103	FRONT CHASSIS
	37	2050125001	POWER REC. UNIT	80	4120727104	HEADPHONE BRACKET
	38	4140218004	EARTH PLATE	81	4120724107	4P SWITCH BRACKET
	39	1050336202	SHIELD PLATE	82	4120726105	3P SWITCH BRACKET
	40	1048001002	BOTTOM COVER	83	AUE-010	EQ. CONTROL UNIT
	41		FOOT	84	ETC-392B-2	INPUT LED UNIT
5	2	4730355018	TAPPING SCREW (2) 3×10	*85	2061015087	FUSE (4A)
		4770096007	PUSH RIVET	86	2048070003	5P CONNECTOR (DIN)
Ţ		2335241008	POWER TRANS.			
		4.1.	And the second s			walio na paga ang katalon ay ing katalon ang katalon ang katalon ang katalon ang katalon ang katalon ang katal

ADDENDUM LIST

Ref. No.	Part Name & Descriptions	EF For France	EK For U.K	E3 For U.S.A	
△43	BACK PANEL ACCORD CORDINATION CORDINATION POWERTRANS PUSH(SWITCH)	1050339102 2062016001 4450020005 2335241008 22124202012	1050339102 2062020000 MD:2982H 2335246003 2124202012	1050349008 20620190081 MD 3802 2335257005	
70 (72) *(73) (74)	CARTON CASE GUARANTEE CARD IMPORTANT LABEL CAUTION SHEET	5010647089 5150183	5010647089 5150230000 5130372001 5130364006	2124202025; 5010647089 — —	
(75) 公76 企	FUSE LABEL CAPACITOR ACISOCKETE	5130159185 2518001007 OIL CAP 001µF:450V	5130159185 2518001007 OIL CAP 30.014F 450V	2568005121 METALIZ ED& 0.022#F8150V	
	3mm TOOTH WASHER 3T LUG EARTH LABEL VOLTAGE LABEL	Manifestura estados in acresión (no local)	4753001051 2050003000 5130140000 5130362008	2032052008	
85	S. NO. PLATE 4mm TOOTH WASHER FUSE (TIMELOG TYPE)	- - 2061015087 (4A)	4753100004 2061015087 (4A)	5130398153 — 2061023095 (8A)	

PRINTED CIRCUIT BOARD PATTERNS AND PARTS LIST

AUE-010 EQ. CONTROL UNIT



AUE-010 PARTS LIST

	10 TAILTO E	
Ref. No.	Part No.	. Part Name & Descriptions
	· S	EMICONDUCTORS
IC01 IC02 TR01 TR02	2630118001 2630118014 2750024033 2750024033	NJM4560D INTEGRATED CIRCUIT NJM4560DD INTEGRATED CIRCUIT μPA68H(M/L) FIELD EFFECT TRANSISTOR (DUAL TYPE) μPA68H(M/L) FIELD EFFECT TRANSISTOR (DUAL TYPE) μPA68H(M/L) FIELD EFFECT TRANSISTOR (DUAL TYPE) TRANSISTOR (DUAL TYPE)
TR04	2750024033	μPA68H(M/L) FIELD EFFECT TRANSISTOR (DUALTYPE) 2SC1213(D)/(C) TRANSISTOR
TR05 TR06 TR07	2730111063 2730111063 2750029009 2750029009	2SC1213(D)/(C) TRANSISTOR 2SK240(BT)/V FIELD EFFECT TRANSISTOR (DUAL TYPE) 2SK240(BL)/V FIELD EFFECT
TR08	2750029009	TRANSISTOR (DUALTYPE) 2SK240(BL)/V FIELD EFFECT TRANSISTOR (DUALTYPE)
TR10	2750029009	2SK240(BL)/V FIELD EFFECT TRANSISTOR (DUALTYPE)
		COILS
L01 L02	2318017000 2318017000	INDUCTOR
		RESISTORS
R05 R06 R07 R08 R09 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R36 R37 R36 R37 R36 R37 R36 R37 R36 R37 R36 R37 R36 R37 R37 R37 R37 R37 R37 R37 R37 R37 R37	2412292909 2412219908 2412219908 2412239904 2412239904 2412239904 2412239904 2412239904 2412215902 2412275900 2412275900 2412275900 2412275900 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412252907 2412227903 2412227903 2412236907 2412236907 2412236907 2412236907 2412236907 241227903 241227903 241227903 241227903 241227903 241227903 241227903 241227903 241227900 2412215902 2412215902 2412279906 2412279906	510 kohm ±5% ¼W FIXED CARBON FILM 510 kohm ±5% ¼W FIXED CARBON FILM 470 ohm ±5% ¼W FIXED CARBON FILM 470 ohm ±5% ¼W FIXED CARBON FILM 3.3 kohm ±5% ¼W FIXED CARBON FILM 4.00 kohm ±5% ½W FIXED CARBON FILM 4.00 kohm ±5% ½W FIXED CARBON

V	Д	-	5	5	\circ	200

TC-392R.	INPUT SW	LED	THALL

Part Name & Descriptions 68 oF +10% 100V FIXED MICA FILM 0.0015 µF ±5% 50V FIXED PLASTIC FILM 0.0015 #F 15% 50V FIXED PLASTIC FILM 20 pF ±5% 50V FIXED MICA FILM 20 pF 15% 50V FIXED MICA FILM 0.012 µF ±5% 50V FIXED PLASTIC FILM 0.012 uF ±5% 50V FIXED PLASTIC FILM 0.012 µF ±5% 50V FIXED PLASTIC FILM 0.012 #F +5% 50V FIXED PLASTIC FILM 15 pF. ±5% 50V FIXED MICA FILM 15 pF ±5% 50V FIXED MICA FILM 0.082 uF ±5% 50V FIXED PLASTIC FILM 0.082 µF +5% 50V FIXED PLASTIC FILM 120 pF :5% 50V FIXED PLASTIC FILM 120 pF 15% 50V FIXED PLASTIC FILM 220 µF 10V FIXED ELECTROLYTIC 220 µF 10V FIXED ELECTROLYTIC 1 µF 35V FIXED TANTALUM SOLID 1 µF 35V FIXED TANTALUM SOLID 0.001 µF ±5% 50V FIXED PLASTIC FILM 0 001 µF 15% 50V FIXED PLASTIC FILM 0.18 µF : 2% SOV FIXED PLASTIC FILM 0.18 µF : 2% SOV FIXED PLASTIC FILM 270 pF 15% 50V FIXED PLASTIC FILM 270 pF 5% 50V FIXED PLASTIC FILM 0.068 µF : 2% 50V FIXED PLASTIC FILM 0.068 µF : 2% 50V FIXED PLASTIC FILM 47 µF 16V FIXED ELECTROLYTIC 16V FIXED ELECTROLYTIC

47 uF

10 µF.

10 µF

OTHER PARTS P.W. BOARD

0.6 JUMPER WIRE USED 30 JUMPER SHORT LEAD P=12.5mm USED 3 JUMPER SHORT LEAD P*15mm USED 4 TERMINAL FOR WRAPPING PIN USED 4

3P CONNECTOR PIN ASS. 5P CONNECTOR PIN ASS. 3P. CONNECTOR BASE VARIABLE RESISTOR 100 kohm FOR BASS VARIABLE RESISTOR 100 kohm FOR TREBLE

3P. PUSH SWITCH

SHIELD COVER

IP. PUSH SWITCH: FOR DIRECT ROTARY SWITCH (A) FOR MONITOR ROTARY SWITCH (B) FOR RECOUT PILOT LAMP. FOR MC, MM. PILOT LAMP FOR TONE, DIRECT

0.0047 µF :5% 50V FIXED PLASTIC FILM 0.0047 HF :5% SOV FIXED PLASTIC FILM 0.0068 µF 15% 50V FIXED PLASTIC FILM 0.0068 F 15% 50V FIXED PLASTIC FILM 0 18 μF +5% 100V FIXED PLASTIC FILM 0 18 F :5% 100V FIXED PLASTIC FILM

> 16V FIXED ELECTROLYTIC 16V FIXED ELECTROLYTIC

> > FOR SUB, LOUD, CART.

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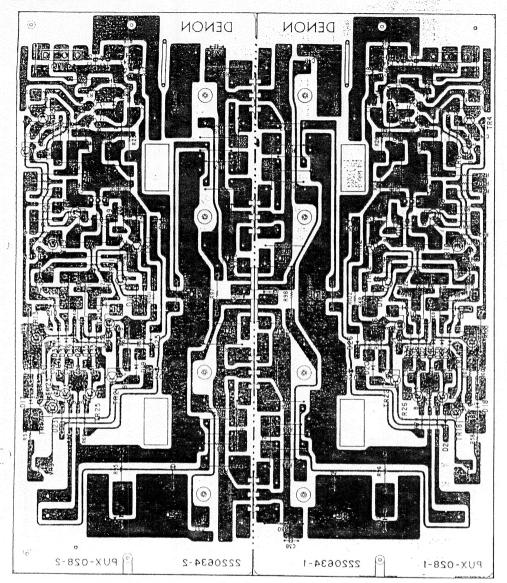
ETC-392B PARTS LIST

-			-		
Ref. No.	Part No.	Part Name & Descriptions	Haf No:	Part No.	Part Name & Descriptions
		SEMICONDUCTORS	C08	2554084017	OOLDF OSS DOWN FOR SOME A JUNEAU W.
			C09	2544043000	0.47 pF SUV FIX St. E. F. tr obajic
D01	3939040002	LED TLG206 (GREEN)	[07450 04010
		LIGHT EMITTING DIODE			OTHER PARIS
D02	3939040002	LED TLG206 (GREEN)		2220633006	P.W. BOARD
		LIGHT EMITTING DIODE		2090008120	JUMPER SHORT LEADER 1 John LISTER
D03	3939040002	LED TLG206 (GREEN)		2090008117	JUMPER SHORT, LEAD P. C. Sonn USED 25.
		LIGHT EMITTING DIODE		EP-5667H1	LIERMINAL FOR WHAPERS PANJISED AND
D04	3939040002	LED TI G206 (GREEN)		2035622008	3P CONNECTOR BASE
	1	LIGHT EMITTING DIODE		2050122033	3P CONNECTOR PIN AND JOHN AND
D05	3939040002	LED TLG206 (GREEN)		2035622066	SP MINE CONNECTORERS
		LIGHT EMITTING DIODE		2050087039	3P TERMINAL
006	3939040002	LED FLG206 (GREEN)		2048045009	AP PIN JACK
		LIGHT EMITTING DIODE		2124244009	4P PUSH SWITCH
007	2760233005	M4C-51 DIODE			from instant as a transition
	i			2048047007	HEADPHONE FACE
		RESISTORS		2050003000	3mm LLUS
801	2412068007	100 ohm → 5% ¼W FIXED CARBON FILM		4120724107	dP SWITCH BITAL FT
1302	2412068007	100 ohm 25% WW FIXED CARBON FILM		4711303018	CROSS PAN SCHEW, 64
805	2412156003	470 kohm +5% %W FIXED CARBON FILM		2034147005	3P CONNECTOR COMPANY OF THE REST
H05	2412156003	470 kohm +5% %W FIXED CARBON FILM		2034148004	3P CONNECTOR , many
1103					HEADPHONE
		CAPACITORS		2034152003	3P CONTACT WHILE TO SERVE
-				2034152016	. 3P CONTACT WHILE DOS 1 TO PACE
C0.1	2544043000	. 0 47 AF SOV FIXED LIECTROLYTR		2034152029	I 3P CONTACT WINE AS A FIRE DOM.
1002	2544043000	0 47 pt SOV FIXED ELECTHOLYTIC		2034152032	3P CONTACT WHE ASSA WEADER
C03	2544043000	0.47 µF 50V FIXED ELECTROLYTIC			AP CONNECTOR CORD - ASSESSED
C04	2544043000	0.47 µF 50V FIXED ELECTROLYTIC		2038091005	SP CONNECTOR CORD FOR EMPIRE LES
C05	2554084017	0.01 µF ±5% 100V FIXED PLASTIC FILM		2038097003	5P CONNECTOR CORE
C06	2554084017	0.01 µF +5% 100V FIXED PLASTIC FILM		2038093003	SP CONNECTION CONTRACTOR
007	2554084017	printing the model statement of the residence of	1		

\parallel	Rel. No.	Part No.	Part Name & Descriptions	Ref. No.	Part No.
71	R43	2412245901	5.6 kohm ±5% 4W FIXED CARBON FILM	C16	2521030007
11	R44	2412245901	5.6 kohm 15% %W FIXED CARBON FILM	C17	2554149004
	R45	2412108006	4.7 kohm ±5% ¼W FIXED CARBON FILM	- C18	2554149004
	R46	2412243903	4.7 kohm ±5% 4W FIXED CARBON FILM	C19 C20	2521017004 2521017004
	R47	2412108006	4.7 kohm 15% ¼W FIXED CARBON FILM 4.7 kohm 15% ¼W FIXED CARBON FILM	C21	2554171001
	R48	2412243903 2412248908	7.5 kohm 15% %W FIXED CARBON FILM	C22	2554171001
H	H49	2412246908	15 kohm ±5% ¼W FIXED CARBON FILM	C23	2554171001
	R50 H51	2412179909	100 ohm 15% WW FIXED CARBON FILM	C24	2554171001
	R52	2412171907	4.7 ohm 15% W FIXED CARBON FILM	C25	2521014007
	R53	2412211906	220 ohm 15% 4W FIXED CARBON FILM	C26	2521014007
1	R54	2412211906	220 ohm 15% W FIXED CARBON FILM	C27	2554191007
	R57	2412203901	100 ohm 15% W FIXED CARBON FILM	C28	2554191007
11	R58	2412203901	100 ohm ±5% WW FIXED CARBON FILM	C29	2554123004
	R59	2412029091	51 kohm ±5% %W FIXED CARBON FILM	C30	2554123004
) []			STANDING TYPE	C33	2544011003
	R60	2412029091	51 kohm ±5% %W FIXED CARBON FILM	C34	2544011003
1	R61	2412020003	1.5 kohm ±5% ¼W FIXED CARBON FILM	C35	2541035008
6			STANDING TYPE	C36	2541035008
7.	·62	2412020003	1.5 kohm ±5% .W FIXED CARBON FILM	C37	2554145008
	R63	2412231902	1.5 kohm 15% "W FIXED CARBON FILM	C38	2554145008
)	R64	2412231902	1.5 kohm 15% AV FIXED CARBON FILM	C39	2554085016
-	P65	2412211906	220 ohm 15% SW FIXED CARBON FILM	C40	2554085016
	R66	2412211906	220 ohm +5% +W FIXED CARBON FILM	C41	2554131009
4	HG/	2412231902	1.5 kohm 15% AW FIXED CARBON FILM	C42	2554131009
	RGS	2412231902	1,5 kohm 15% GW FIXED CARBON FILM	C43	2554085032 2554085032
	H69	2412020003	1.5 kohm ±5% 4W FIXED CARBON FILM STANDING TYPE	C44	2544017007
			1.5 kohm ±5% ¼W FIXED CARBON FILM	C46	2544017007
F	1670 2071	2412020003 2412085006	510 ohm :5% W FIXED CARBON FILM	C47	2554161008
1	672 -	2412085006 2412085006	510 ohm 15% IW FIXED CARBON FILM	C48	2554161008
	873	2412202902	91 ohm 15% W FIXED CARBON FILM	C49	2554165004
-	R74	2412202902	91 ohm 15% AW FIXED CARBON FILM	C50	2554165004
ļ	875	2412171907	4.7 ohm 15% NW FIXED CARBON FILM	C51	2554082048
1	876	2412171907	1 4 7-blim 15% JW FIXED CARBON FILM	C52	2554082048
· ·	B77	2412312009	2.7M ohm :5% AW FIXED CARBON FILM	C55	2544015009
	R78	2412312009	2.7M ohm ±5% AW FIXED CARBON FILM	C57	2544015009
	R79	2412018002	3.9 kohm ±2% NW FIXED CARBON FILM		
	R80	2412018002	3.9 kohm ±2% 4W FIXED CARBON FILM		
	R81	2412032091	47 kohm ±2% %W FIXED CARBON FILM	C pilos	
	. R82	2412032091	47 kohm ±2% ¼W FIXED CARBON FILM		2220635004
4	83	2412186905	20 ohm :5% %W FIXED CARBON FILM		2090042908
·ì	₹84	2412186905	20 ohm ±5% ¼W FIXED CARBON FILM		2090008117
	R85	2412290901	430 kohm 15% ¼W FIXED CARBON FILM		2090008104
1	R86	2412290901	430 kohm ±5% %W FIXED CARBON FILM		EP-5667H1
	R87	2412203901	100 ohm ±5% %W FIXED CARBON FILM		2050122033
- 6 :	R88	2412203901	100 ohm 15% 4W FIXED CARBON FILM		2050122059
	R89 R90	2412203901	100 ohm ±5% AW FIXED CARBON FILM		2035622008
	R95	2412239908	2.2 kohm ±5% ¼W FIXED CARBON FILM	VR	2170254003
1	7195	2412233300	2.2 KOMM - 5% ATT TIXED CAMBOTT TEM		
			CAPACITORS	VR	2170254003
					2124240003
1	C07	2554137003	470 pF ±5% 50V FIXED PLASTIC FILM	1000	2124240003
1	C08	2554137003	470 pF 15% SOV FIXED PLASTIC FILM		2124241002
1	CO0	2554137003	470 pF 15% 50V FIXED PLASTIC FILM		2120175004
	C10	2554137003	. 470 pF 15% 50V FIXED PLASTIC FILM		2120176003
1	CII	2561008060	1 µF 10% 100V FIXED METALIZED		3930045019
1	C12	2561008060	F - 10% 100V FIXED METALIZED	10000	3930045006
	C13	2521026008	47 pF 110. 100V FIXED MICA FILM		4140116106
1	C14	2521026008	47 pF +10% 100V FIXED MICA FILM	1	
	C15	2521030007	68 pF - 10"- 100V FIXED MICA FILM	1	

ILM

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PUX-028 PARTS LIST

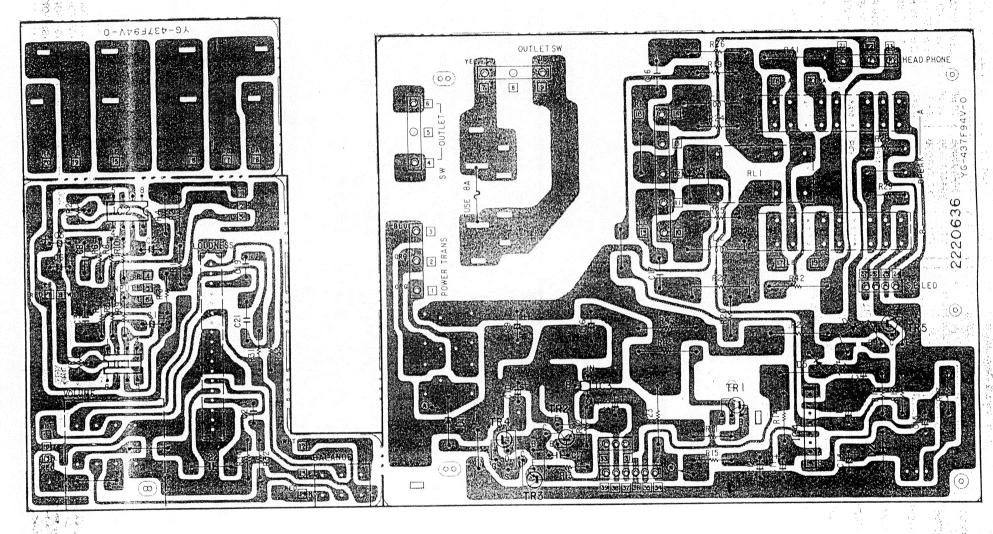
Ref.: No.	Part No.	Part Name	& Descriptions
	S	EMICONDUCTORS	
TRO1	2730181019 2730181019	2SC1583(G)/(F) 2SC1583(G)/(F)	TRANSISTOR TRANSISTOR
1803	2730198002	2SC1815(Y)	TRANSISTOR
TR04	2730198002	2SC1815(Y)	TRANSISTOR
TR05	2730198002	2SC1815(Y)	TRANSISTOR
TRO6	2730198002	2SC1815(Y)	TRANSISTOR

Ref. No.	Part No.	Part Name & Descriptions
TR07	2710110000	,2SA916(L) TRANSISTOR
TR08.	2710110000	2SA916(L) TRANSISTOR
TR09	2710110000	2SA916(L) TRANSISTOR
TR10	2710110000	25A916(L) TRANSISTOR
TR11:	2730205005	2SC1941(L) TRANSISTOR
TR12	2730205005	2SC1941(L) TRANSISTOR
TR13	2730198002	2SC1815(Y) TRANSISTOR
TR14	2730198002	2SC1815(Y) TRANSISTOR

(Cont.)

No.;	Part No.	Part Name & Descriptions	Ref. No.	Part No.	Part Name & Descriptions
TR15	- 2710102005	2SA1015(Y) - TRANSISTOR	R17-	- 2420203003 -	10M ohm ±10% ¼W
TR16	2710102005	2SA1015(Y) TRANSISTOR			FIXED CARBON COMPOSI
TR17	2710102005	2SA1015(Y) TRANSISTOR	R18	2420203003	10M ohm ±10% %W
TR18	2710102005	2SAT015(Y) TRANSISTOR			, FIXED CARBON COMPOSI
TR21	2730198002	2SC1815(Y) TRANSISTOR	R19	2412211906	220 ohm ±5% %W FIXED CARBON
TR22	2730198002	2SC1815(Y) TRANSISTOR	R20	2412211906	220 ohm ±5% %W FIXED CARBON
TR23	2730111063 2730111063	2SC1213(D)/(C) TRANSISTOR 2SC1213(D)/(C) TRANSISTOR	R21	2412248908	7.5 kohm ±5% %W FIXED CARBON 7.5 kohm ±5% %W FIXED CARBON
TR24 TR25	2710040073	2SC1213(D)/(C) TRANSISTOR 2SA673A(D)/(C) TRANSISTOR	R22 R23	2412248908 2412248908	7.5 kohm 15% WW FIXED CARBON
TR26	2710040073	2SA673A(D)/(C) TRANSISTOR	R24	2412248908	7.5 kohm 15% W FIXED CARBON
TR41	2730198015	2SC1815(BL) TRANSISTOR	R25	2440053026	10 1-1 - SIEN 111
TR42	2730198015	2SC1815(Bt) TRANSISTOR		2	FIXED METAL OXIDE FIL
D01	2760049008	152076 DIODE	R26	2440053026	10 kohm ±5% 1W
D02	2760049008	1S2076 DIODE			FIXED METAL OXIDE FIL
D05	2760220018	HZ24-1 DIODE	R27	2442007012	330 ohm ±5% ¼W
D06	2760220018	HZ24-1 DIODE			FIXED METAL OXIDE FIL
D07	2760220018	.HZ24-1 DIODE	R28	2442007012	330 ohm ±5% ¼W
D08	2760220018	HZ24-1 DIODE			FIXED METAL OXIDE FIL
D09	2760171028	HV-23(YL) DIODE	R29	2442007012	330 ohm ±5% ¼W
D10	2760171028	HV-23(YL) DIODE	1 1 1		FIXED METAL OXIDE FIL
D11.	2760171028	HV-23(YL) DIODE	R30	2442007012	330 ohm ±5% ¼W
D12	2760171028	HV-23(YL) DIODE			FIXED METAL OXIDE FIL
D13	2760049011 2760049011	1S2076A DIODE 1S2076A DIODE	R31	2412195909	47 ohm . ±5% %W FIXED CARBON
D15	2760049011		R32	2412195909	47 ohm ±5% %W FIXED CARBON
D16	2760049011	1\$2076A DIODE 1\$2076A DIODE	R33	2412195909	47 ohm ±5% %W FIXED CARBON
D17	2760049011	152076A DIODE	R34	2412195909	47 ohm ±5% %W FIXED CARBON
D18	2760049008	152076 DIODE	R35	2410193000	2.2 kohm ±5% %W FIXED CARBON
D19	2760049008	152076 DIODE	R36	2410193000	2.2 kohm ±5% %W FIXED CARBON
D20	2760049008	152076 DIODE	R37	2442022013	51 ohm ±5% %W
D21	2760254000	H27B-3 DIODE	D.00		FIXED METAL OXIDE FIL
D22	2760254000	H278-3 DIODE	R38	2442022013	51 ohm . ±5% ¼W
D23	2760049008	152076 DIODE	200		FIXED METAL OXIDE FIL
D24	2760049008	152076 DIODE	R39	2412179909	10 ohm ±5% %W FIXED CARBON
D25	2760049008	152076 DIODE	R40	2412179909	10 ohm ±5% ¼W FIXED CARBON
D26	2760049008	1S2076 DIODE	B42	2412179909	10 ohm ±5% %W FIXED CARBON
D27	2760132041	STV-3H(G) DIODE	R43	2440070029	10 ohm ±5% %W FIXED CARBON 5.6 kohm ±5% 1W
D28	2760132041	STV-3H(G) DIODE	11.5	2440070025	FIXED METAL OXIDE FIL
D29	2760132041	STV-3H(G) DIODE	R44	2440070029	5.6 kohm ±5% 1W
D30	2760132041	STV-3H(G) DIODE			FIXED METAL OXIDE FIL
D31	2760049011	1S2076A DIODE	R45	2412235908	2.2 kohm ±5% 1W FIXED CARBON
D32	2760049011	1S2076A DIODE	R46	2412235908	2.2 kohm -15% 1W FIXED CARBON
D33	2760049011	1S2076A DIODE	R47	2412235908	2.2 kohm ±5% 1W FIXED CARBON
D34	2760049011	1S2076A DIODE	R48	2412735908	2,2 kohm ±5% 1W FIXED CARBON
D35	2760049011	1S2076A DIODE	R49	2412203901	100 ohm ±5% %W FIXED CARBON
D36	2760049011	1S2076A DIODE	R50	2412203901	100 ohm ±5% ¼W FIXED CARBON
D37	2760049011	1S2076A DIODE	R51	2412203901	100 ohm ±5% ¼W FIXED CARBON
D38	2760049011	1S2076A DIODE	R52	2412203901	100 ohm ±5% %W FIXED CARBON
D39 D40	2760254000 2760254000	HZ78-3 DIODE	R53	2442022000	1 kohm ±5% ¼W
D40	2760254000	HZ7B-3 DIODE		1	FIXED METAL OXIDE FIL
		RESISTORS	R54	2442022000	1 kohm ±5% ¼W
	T				FIXED METAL OXIDE FI
R01	2412209905	180 ahm ±5% %W FIXED CARBON FILM	R55	2442022000	1 kohm ±5% ¼W
R02	2412209905	180 ohm ±5% %W FIXED CARBON FILM		01105	FIXED METAL OXIDE FI
R03	2412201903	82 ohm ±5% XW FIXED CARBON FILM	R56	2442022000	1 kohm ±5% ¼W;
R04	2412201903	82 ohm ±5% ¼W FIXED CARBON FILM		04405	FIXED METAL OXIDE FIL
R05	2412012095	2.2 kohm ±2% %W FIXED CARBON FILM	R57	2412203901	100 ohm ±5% ¼W ;; **
R06	2412012095	2.2 kohm ±2% ¼W FIXED CARBON FILM	050	2412202001	FIXED METAL OXIDE FIL
R08	2412012095	2.2 kohm ±2% ¼W FIXED CARBON FILM	R58	2412203901	100 ohm ±5% ½W
R09	2412012095	2.2 kohm ±2% ¼W FIXED CARBON FILM	R59	2412225000	FIXED METAL OXIDE FIL
R10	2412201903	82 ohm ±5% %W FIXED CARBON FILM	R60	2412235908	2.2 kohm ±5% %W FIXED CARBON
R11	241225390€		1	2412235908	2.2 kohm ±5% %W FIXED CARBON
R12	2412253906	12 kohm ±5% ¼W FIXED CARBON FILM	R61 R62	2412211906 2412211906	2.2 kohm ±5% %W FIXED CARBON
R13	2442022026	12 kohm ±5% ¼W FIXED CARBON FILM 390 ohm ±5% ¼W	R63	2412211906	2.2 kohm ±5% ¼W FIXED CARBON
	2772022026		R64	2412235908	2.2 kohm ±5% %W FIXED CARBON
R14	2442022026	FIXED METAL OXIDE FILM 390 ohm ±5% %W	1	2412235908	2.2 kohm ±5% VW FIXED CARBON
	2-1-12022026	FIXED METAL OXIDE FILM	R65 R66	2412211906	2.2 kohm ±5% ¼W FIXED CARBON
R15	2420203003	10M ohm ±10% ¼W	R67	2442007067	2.2 kohm ±5% VW FIXED CARBON
	2,720203003	FIXED CARBON COMPOSIT	1 467	2442007067	120 ohm ±5% %W FIXED CARBON
	2420203003	10M ohm ±10% ¼W	R68	2442007067	FIXED METAL OXIDE FIL 120 ohm ±5% %W
R16				1 2 7 7 2 3 3 7 7 8 9 7	1 140 UHH 1376 74VV

nt.)		Part Name & Descriptions	Ref.	Part No.	Part Name & Descriptions
ef. No.	Part No.	Part Name & Descriptions		2544035005	10 µF 35V FIXED ELECTROLYTIC
69	2442007067	120 ohm - ±5% ¼W	000	2544035005	10E 35V FIXED ELECTROLYTIC
69		FIXED METAL OXIDE FILM	C10	2521008000	+0.5 pF.50V FIXED MICA FILM
70	2442007067	120 ohm ±5% ¼W	C11	2521008000	8 DE +0.5 DE 50V FIXED MICA FILM
/0		FIXED METAL OXIDE FILM.	C12		22 pF ±5% 50V FIXED MICA FILM
71	2440041025	1 kohm ±5% 1W	C13	2521018003	22 pF ±5% 50V FIXED MICA FILM
71	A. A.	FIXED METAL OXIDE FILM	C14	2521018003	7 pF ±0.5 pF 500V FIXED MICA FILM
70	2440041025	1 kohm ±5% 1W	C15	2521081001	= = = ON FINED MICA EII M
72	24 1004 1020	FIXED METAL OXIDE FILM	C16	2521081001	7 pF ±0.5 pF 500V FIXED MICA FILM 220 pF ±5% 50V FIXED PLASTIC FILM
72	2440041025	1 kohm ±5% 1W	C17	2554129008	220 pF ±5% 50V FIXED PLASTIC FILM
73	2110011020	FIXED METAL OXIDE FILM	C18	2554129008	
7.4	2440041025	1 kghm = ±5% 1W	C19	2544060025	TOTEO VIIC
74	2440041028	FIXED METAL OXIDE FILM	C20	2544060025	
	2440013024	4.7 ohm ±5% 1W	C21	2554129008	THE DI ACTIO EILM
775	2440010021	FIXED METAL OXIDE FILM	C22	2554129008	THE STATE OF A CTIC EN M
	2440013024	4.7 ohm ±5% 1W	C23	2554121006	- WILL ACTIO FILM
76	2440013024	FIXED METAL OXIDE FILM	C24	2554121006	100 pF $\pm 5\%$ 50V FIXED PLASTIC FILM $0.0047 \mu\text{F} \pm 5\%$ 50V FIXED PLASTIC FILM
	2440013024	4.7 ohm ±5% 1W	C25	2554161008	0.0047 µF ±5% 50V FIXED PLASTIC FILM
377	2440013024	FIXED METAL OXIDE FILM	C26	2554161008	0.0047 µF ±5% 50V FIXED PLASTIC FILM
	0.44004.0004	4.7 ohm ±5% 1W	C27	2554161008	0.0047 µF ±5% 50V FIXED PLASTIC FILM
R78	2440013024	FIXED METAL OXIDE FILM	C28	2554161008	0.0047 µF ±5% 50V FIXED PLASTIC FILM
			C29	2554161008	0.0047 µF ±5% 50V FIXED PLASTIC FILM
379	2440013024	4.7 ohm ±5% 1W FIXED METAL OXIDE FILM	C30	2554161008	0.0047 µF ±5% 50V FIXED PLASTIC FILM
j			C31	2554161008	0.0047 µF ±5% 50V FIXED PLASTIC FILM
80	2440013024	4.7 ohm ±5% 1W	C32	2554161008	0.0047 µF ±5% 50V FIXED PLASTIC FILM
7		FIXED METAL OXIDE FILM	C33	2544059036	47 UF 63V FIXED ELECTROLYTIC
R81	2440013024	4.7 ohm ±5% 1W		2544059036	A 7 UF 63V FIXED ELECTROLYTIC
		FIXED METAL OXIDE FILM	C34	2544059036	47 UF 63V FIXED ELECTROLYTIC
R82	2440013024	4.7 ohm ±5% 1W	C35		47 UF 63V FIXED ELECTROLYTIC
1,02		FIXED METAL OXIDE FILM	C36	2544059036	4.7 µF 63V FIXED ELECTROLYTIC
R83	2412191903	33 ohm ±5% ¼W FIXED CARBON FILM	C37	2544059036	4.7 µF 63V FIXED ELECTROLYTIC
	2412191903	33 ohm +5% ¼W FIXED CARBON FILM	C38	2544059036	- FOTDOLYTIC
R84	2412191903	33 ohm +5% %W FIXED CARBON FILM	C39	2544059036	The second state of the se
R85		33 ohm ±5% ¼W FIXED CARBON FILM	C40	2544059036	THE PART OF THE
R86	2412191903	33 ohm ±5% ¼W FIXED CARBON FILM	C41	2554169000	THE PARTY OF THE
R87	2412191903	33 ohm ±5% ¼W FIXED CARBON FILM	C42	2554169000	
R88	2412191903	- WES SARRON ELLM	C43	2521005003	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
R89	2412191903		C44	2521005003	5 pF ±0.5 pF 50V FIXED MICA FILM
R90	2412191903		C45	2521081014	1 pF ±0.5 pF 500V FIXED MICA FILM
R91	2432026003	0.47 ohm ±10% 3.15W	C46	2521081014	1 pF ±0.5 pF 500V FIXED MICA FILM
		FIXED WIRE WOUND		2521014007	15 pF ±0.5 pF 50V FIXED MICA FILM
R92	2432026003	0.47 ohm ±10% 3.15W	C47	2521014007	15 PE +0 5 OF 50V FIXED MICA FILM
		FIXED WIRE WOUND	C48	2521014007	10 pF ±0.5 pF 50V FIXED MICA FILM
R93	2432026003	0.47 ohm ±10% 3.15W	C49	1	
		FIXED WIRE WOUND	C50	2521010001	THE PROPERTY OF THE PROPERTY O
R94	2432026003	0.47 ohm ±10% 3.15W	C51	2544060025	VTI
		FIXED WIRE WOUND	C52	2544060025	TO THE COUNTY
295	2440022028	27 ohm ±10% 1W	C53	2544044009	TOTAL OF VIEW
		FIXED METAL OXIDE FILM	C54	2544044009	1 μF 50V FIXED ELECTROLYTIC
R96	2440022028	27 ohm ±10% 1W	C55	2544044009	1 μF 50V FIXED ELECTROLYTI
	2,70022020	FIXED METAL OXIDE FILM	C56	2544044009	1 µF 50V FIXED ELECTR OLYTI
R97	2440029021	100 ohm ±10% 1W		1	
13/	2440029021	FIXED METAL OXIDE FILM			
200	2440029021	100 ohm ±10% 1W		1	
R 98	2440029021	FIXED METAL OXIDE FILM			OTHER PARTS
399	2440051026	6.8 kohm ±10% 1W FIXED METAL OXIDE FILM		2220634005	P.W. BOARD
					BE LICED 16
100	2440051026	6.8 kohm ±10% 1W		2090042908	USED
		FIXED METAL OXIDE FILM		2090008117	
101	2440051026	6.8 kohm ±10% 1W		2050075025	
1		FIXED METAL OXIDE FILM		2050122033	
	2440051026	6.8 kohm ±10% 1W		2035622008	3P. CONNECTOR BASE
102		FIXED METAL OXIDE FILM	VR01		
102		4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	VR02	2116014014	SEMI FIXED RESISTOR 1 kohm
102					SEMI FIXED RESISTOR 100 KONTO
102			VR03		100 kg
102		CAPACITORS	VR03		SEMI FIXED RESISTOR 100 kohm
102				2116014030	1P CONTACT (D) ASS FOR EAR TH
102	2554121006	100 pE +5% 50V FIXED PLASTIC FILM		2116014030	1 P. CONTACT (D) ASS FOR EAR TH 1 P. CONTACT (D) ASS FOR Late
01	2554121006 2554121006	100 pF ±5% 50V FIXED PLASTIC FILM		2116014030 2030200030 2030208016	1 P. CONTACT (D) ASS FOR EAR TH 1 P. CONTACT (D) ASS FOR Ld-B 1 P. CONTACT (D) ASS FOR Rd-B
01 02	2554121006	100 pF ±5% 50V FIXED PLASTIC FILM 100 pF ±5% 50V FIXED PLASTIC FILM 0.001 vF +5% 50V FIXED PLASTIC FILM		2116014030 2030200030 2030208016 2030208029	1 P. CONTACT (D) ASS FOR EAR TH 1 P. CONTACT (D) ASS FOR Lot-B 1 P. CONTACT (D) ASS FOR Rot-B 1 TP. CONTACT (D) ASS FOR Lot+B
01 02 03	2554121006 2554145008	100 pF ±5% 50V FIXED PLASTIC FILM 100 pF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM		2116014030 2030200030 2030208016 2030208029 2030207017	1P. CONTACT (D) ASS FOR EAR TH 1P. CONTACT (D) ASS FOR Lct- B 1P. CONTACT (D) ASS FOR Rd- B 1P. CONTACT (D) ASS FOR Lct- B
01 02 03 04	2554121006 2554145008 2554145008	100 pF ±5% 50V FIXED PLASTIC FILM 100 pF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM		2116014030 2030200030 2030208016 2030208029 2030207017 2030207020	1P. CONTACT (D) ASS FOR EAR TH 1P. CONTACT (D) ASS FOR Lcl-B 1P. CONTACT (D) ASS FOR Rcl-B 1P. CONTACT (D) ASS FOR Lcl+B 1P. CONTACT (D) ASS FOR Rcl+B 1P. CONTACT (D) ASS FOR Rcl+B
301 02 03 04 05	2554121006 2554145008 2554145008 2554161008	100 pF ±5% 50V FIXED PLASTIC FILM 100 pF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM 0.0047 μF ±5% 50V FIXED PLASTIC FILM 0.0047 μF ±5% 50V FIXED PLASTIC FILM	VR04	2116014030 2030200030 2030208016 2030208029 2030207011 2030207020 203020703	1P. CONTACT (D) ASS FOR EAR TH 1P. CONTACT (D) ASS FOR Lcl- B 1P. CONTACT (D) ASS FOR Rd- B 1P. CONTACT (D) ASS FOR Lcl+ B 1P. CONTACT (D) ASS FOR Rd+ B 1P. CONTACT (D) ASS FOR Rd- Ut
01 02 03 04	2554121006 2554145008 2554145008	100 pF ±5% 50V FIXED PLASTIC FILM 100 pF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM 0.001 μF ±5% 50V FIXED PLASTIC FILM 0.0047 μF ±5% 50V FIXED PLASTIC FILM 0.0047 μF ±5% 50V FIXED PLASTIC FILM	VR04	2116014030 2030200030 2030208016 2030208029 2030207017 2030207020	1P. CONTACT (D) ASS FOR EAR TH 1P. CONTACT (D) ASS FOR Lot B 1P. CONTACT (D) ASS FOR Rot B 1P. CONTACT (D) ASS FOR Lot B 1P. CONTACT (D) ASS FOR Rot B 1P. CONTACT (D) ASS FOR Rot UT 1P. CONTACT (D) ASS FOR Rot UT 1P. CONTACT (D) ASS FOR Lot UT



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ETC-393B PARTS LIST

Ref.	Part No.	Part Name & Descriptions	Ref.	Part No.	Part Name & Descriptions
	SF	MICONDUCTORS			CAPACITORS
97.5	DASKER SERVE		C01	2544003008	100 µF 6.3V FIXED ELECTROLYTIC
001	2630133002	μPC741C INTEGRATED CIRCUIT		2544003008	100 WE 63V FIXED ELECTROLYTIC
002		"PC741C INTEGRATED CIRCUIT	C02	2554169000	0.01 HF ±5% 50V FIXED PLASTIC FILM
5 454 5	2630133002	"PC781 15A INTEGRATED CIRCUIT	C03	The second secon	0.01 HF ±5% 50V FIXED PLASTIC FILM
003		HA12002W INTEGRATED CIRCUIT	C04	2554169000	10 μF 16V FIXED ELECTROLYTIC
04:	2630102004	2SC1626(Y) TRANSISTOR	C05	2544015009	
R01	2730177007		C06	2544015009	TO STRONG VITTO
R02	2710102005		C07	2544015009	
R03	2710117003	B FEFFOT	C08	2544015009	-WED ELECTROLYTIC
R04	2750018009	2SK30A(D) FOR FIELD EFFECT	C09	2544042001	1000 µF 35V FIXED ELECTROLYTIC
		TRANSISTOR	C10	2544039001	220 µF 35V FIXED ELECTROLYTIC
R05	2730198044	2SC1815(Y)/(R) FOR FIELD EFFECT	C11	2544044009	1 µF 50V FIXED ELECTROLYTIC
		TRANSISTOR	C12	2544066003	2.2 µF 50V FIXED ELECTROLYTIC
01	2760158	W06A DIODE		2544005006	330 UF 6.3V FIXED ELECTROLYTIC
	2760244007	MZ230 DIODE	C13	2549015004	22 µF ± 10% 10V FIXED ELECTROLYTIC
02		RV06 DIODE	C14		22 μF ±10% 10₩ FIXED ELECTROLYTIC
003	2760237001	S1RBA20F DIODE	C15	2549015004	0.022 HF =5% 50V FIXED PLASTIC FILM
004	2760239009	31110A201	C16	2554177005	CATROLVIII
		10 10 10 10 10 10 10 10 10 10 10 10 10 1	C16	2544079016	2200 µF 25V FIXED ELECTROLITIES
		RESISTORS	C17	2554177005	0.022 µF ±5% 50V FIXED PLASTIC FILM
			C17	2521018003	22 pF ±5% 50V FIXED MICA FILM
RO1	2412229903	1 kohm ±5% %W FIXED CARBON FILM	C19	2554142001	0.01 µF ±5% 50V FIXED PLASTIC FILM
-	2412229903	1 kohm ±5% ¼W FIXED CARBON FILM	C20	2554142001	0.01 µF ±5% 50V FIXED PLASTIC FILM
15	2412251908	10 kohm ±5% ¼W FIXED CARBON FILM	I :	2554193005	01 WE +5% 50V FIXED PLASTIC FILM
703	2412251908	10 kohm +5% %W FIXED CARBON FILM	C21	2554193005	0.1 µF ±5% 50V FIXED PLASTIC FILM
R04	2412247909	6.8 kohm ±5% ¼W FIXED CARBON FILM	C22	2554193003	О.Т ДТ
R05		6.8 kohm ±5% ¼W FIXED CARBON FILM			OTHER PARTS
306	2412247909	10 kohm ±5% ¼W FIXED CARBON FILM			OTHER PARTS
307	2412251908	10 kohm ±5% ¼W FIXED CARBON FILM			
308	2412251908	20 kohm ±5% ¼W FIXED CARBON FILM		2220636003	P.W. BOARD
R09	2412258901	20 kohm ±5% 4VV FIXED CARBON ELIM	1. 2	2090042908	0.6 JUMPER WIRE USED 7
R10	2412258901	20 kohm ±5% %W FIXED CARBON FILM		2050070004	8P. TERMINAL FOR SPEAKER
R11	2412203901	100 ohm ±5% ¼W FIXED CARBON FILM		2124242001	SLIDE SWITCH (REMOTE) FOR
R12	2412256903	16 kohm ±5% ¼W FIXED CARBON FILM			LOUDNESS
R13	2412255904	15 kohm +5% WW FIXED CARBON FILM	1,001	2116014030	SEMI FIXED RESISTOR 100 kolim
	2410175002	390 ohm +5% %W FIXED CARBON FILM	VR01	A control of the cont	SEMI FIXED RESISTOR 100 kohm
R14		4.7 kohm ±5% ¼W FIXED CARBON FILM	VR02	2116014030	INDUCTOR
R15	2412242903	910 kohm ±5% ¼W FIXED CARBON FILM	L01	2320017001	
R16	2412298903	100 ohm ±5% ¼W FIXED CARBON FILM	L02	2320017001	INDUCTOR
R17	2412179909	10 kohm ±5% ¼W FIXED CARBON FILM	RL01	2140041008	RELAY
R18	2412251908	10 kohm ±5% 4VV FIXED CARRON ELLM		2020014003	FUSE CLIP
R19	2412264908	36 kohm ±5% %W FIXED CARBON FILM		EP-5667H1	TERMINAL FOR WRAPPING PIN USED
R20	2412264908	36 kohm ±5% %W FIXED CARBON FILM		2050087039	3P TERMINAL
R21	2412275900	100 kohm ±5% ¼W FIXED CARBON FILM		2050087055	5P TERMINAL
R22	2440041025	1 kohm ±5% 1W FIXED CARBON FILM		2050122033	3P CONNECTOR PIN ASS.
		FIXED METAL OXIDE FILM		2055622008	3P CONNECTOR BASE
മാാ	2440041025	1 kohm ±5% 1W			4P MINI CONNECTOR PIN
12,	2440041023	FIXED METAL OXIDE FILM	1525	2035622024	6P CONNECTOR BASE
	2412105000	47 ohm ±5% 1/4W FIXED CARBON FILM	1114	2035622082	VARIABLE RESISTOR 50 kohm
R24	2412195909	- Land Carlotte Land Carlotte Land	VR	2110257000	FOR MAIN VR
R25	2412195909				FUR WAIN VIT
R26	2440017020	10 ohm ±5% 1W FIXED METAL OXIDE FILM	VR	2110256001	VARIABLE RESISTOR 100 kohm
					FOR BALANCE
R27	2440017020	10 ohm ±5% 1W	SW	2124243000	2P PUSH SWITCH FOR SPEAKER SWITCH
		FIXED METAL OXIDE FILM	J J	2034146006	3P CONNECTOR CORD FOR + - B
R28	2412203901	100 ohm ±5% ¼W FIXED CARBON FILM		2034149003	3P CONNECTOR CORD
R29	2412203901	100 ohm +5% WW FIXED CARBON FILM		2004140000	FOR BALANCE IN
	2412255904	15 kohm +5% WW FIXED CARBON FILM		20044 40000	3P CONNECTOR CORD
R31		15 kohm ±5% ¼W FIXED CARBON FILM		2034149029	FOR VOLUME OUT
R32	2412255904	3 kohm ±5% ¼W FIXED CARBON FILM			
R33	2412238905	3 kohm ±5% ¼W FIXED CARBON FILM		2034151004	3P CONNECTOR CORD
R34	2412238905	3 KONM 1570 /4VV FIALD CALL			FOR SERVO OUT IN
R41	2440033020	220 ohm ±5% 1W		4170021009	RADIATOR
		FIXED METAL OXIDE FILM		4730354019	COREW 2-0 FOR TEN1 FIXE
R42	2440033020	220 ohm ±5% 1W		5130159185	
1142	27.0000020	FIXED METAL OXIDE FILM			
	0440007002	68 nhm = 5 % 1W		4730354019	FOR RADIATOR FILE U
R43	2440027023	FIXED METAL OXIDE FILM	la la disconsidera		FUN DADIA OUT
		EOV 1141			
R45	2440017020	FIXED METAL OXIDE FILM			그를 잃었다는 하는 이 돌아왔다면 얼룩 그렇게 그
	and the second s	I will be taken we have a first the property of the property o	1 1		

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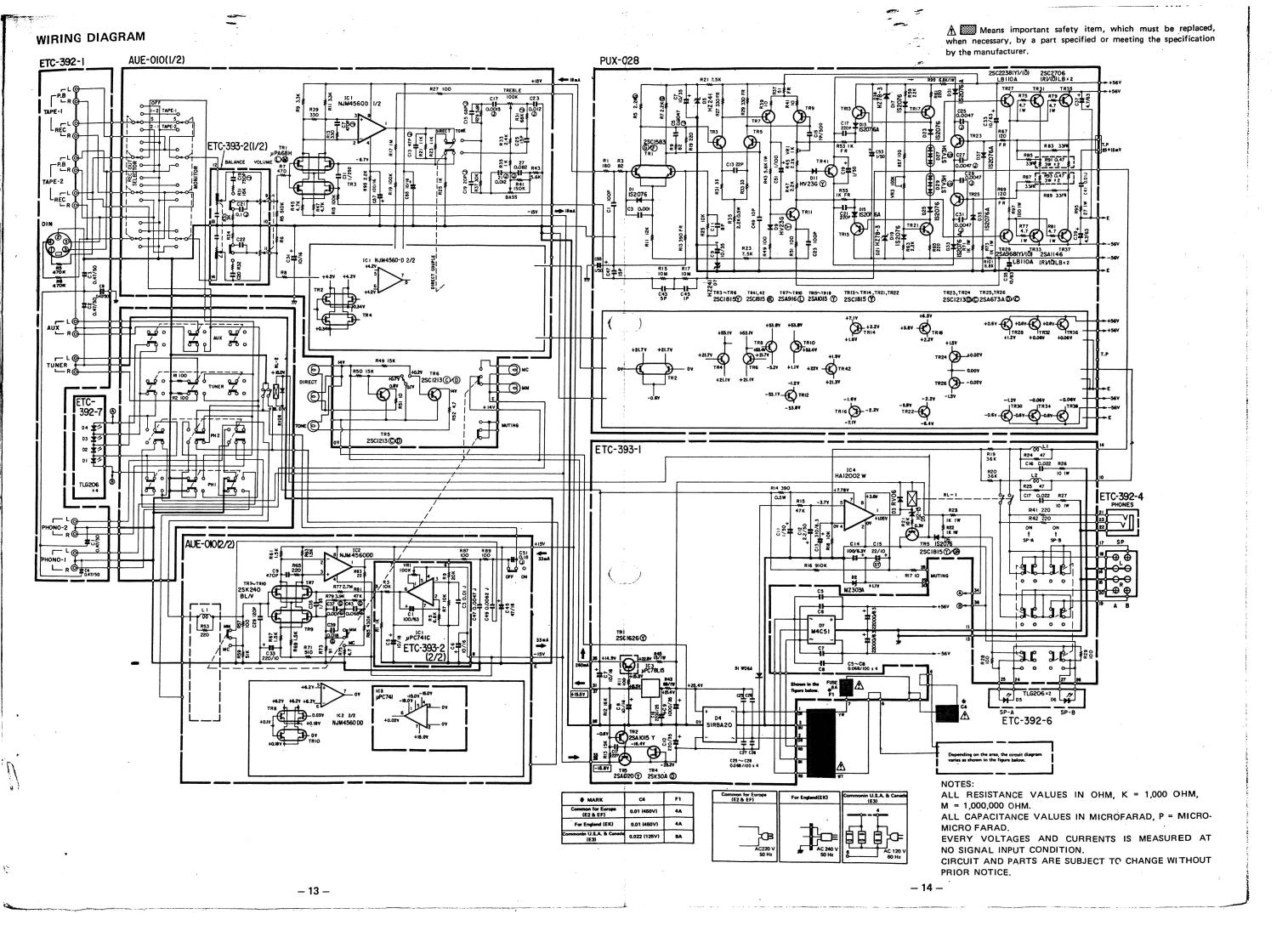
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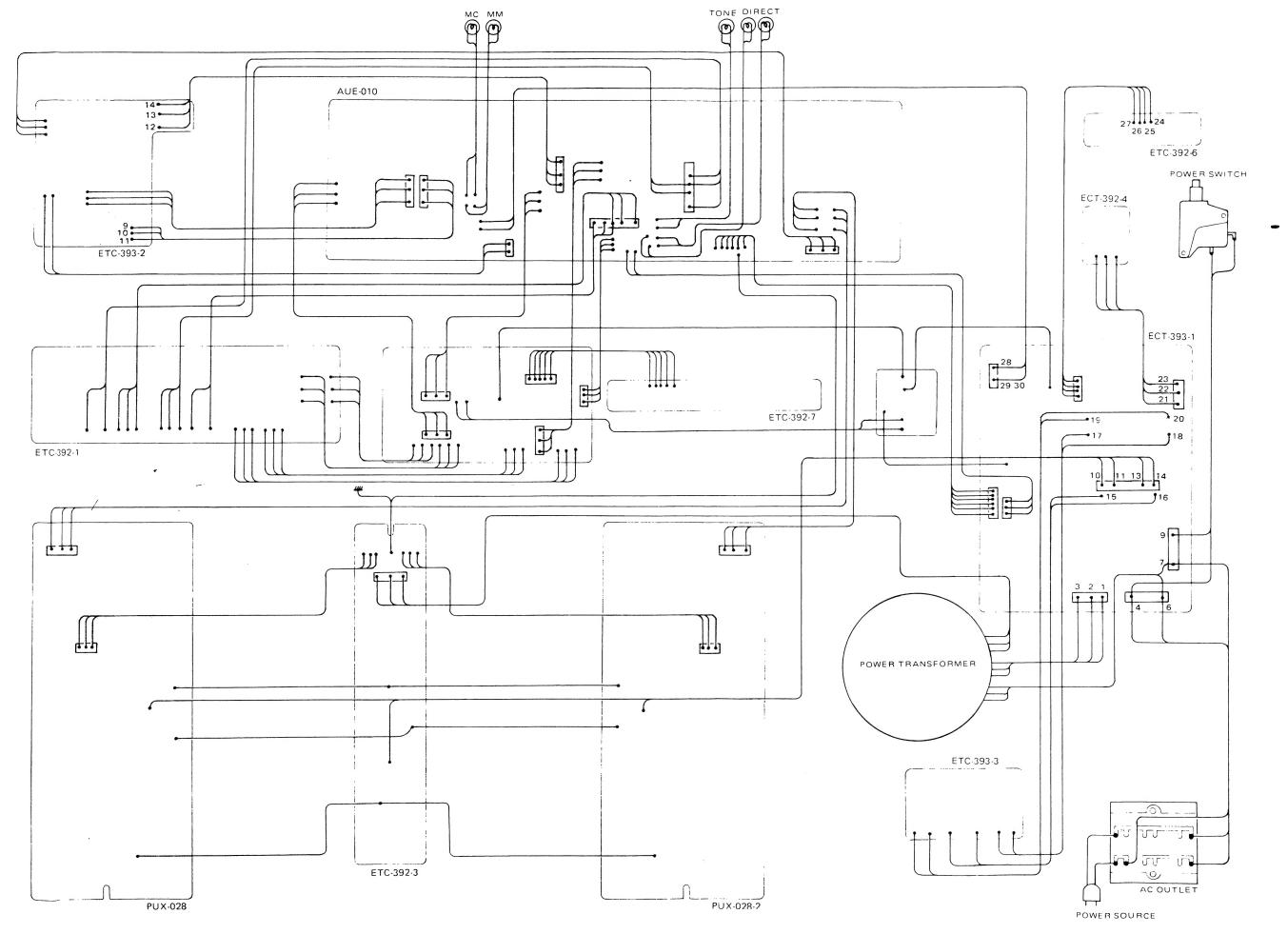
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CONNECTION DIAGRAM This connection diagram is viewed from the printed pattern side and used E3 (U.S.A. & Canada) version.





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